



RF



ORANGE COUNTY AMATEUR RADIO CLUB

VOL. XXXIII NO. 10

P.O. BOX 3454, TUSTIN, CA 92681

OCTOBER, 1992

Prez Sez

by Frank Smith, WA6VKZ

Well, it is the time of year when all good hams search for the equipment, parts, etc. that they couldn't possibly do without, so that they can pass it along to other anxious hams at the OCARC Annual Auction.

For the new hams who have never participated in our auction, I shall attempt to "clue you in." The Auction is a great place to pick up good buys in everything from the smallest to the largest pieces of electronic parts and equipment. Naturally, the greater the participation, the greater the selection of pieces.

To all hams, bring your treasures and/or checkbook Friday, October 16, 1992, to the Anaheim E.O.C.

In November, we are returning to our previous Board Breakfast site of Denny's Restaurant on Seventeenth and the 55 Freeway in Santa Ana. Be sure to leave a tip for our hard working waiters and waitresses.

CLUB NOTES

Auction

The auction rules and map are attached separately to this newsletter. There will be NO business meeting at the Auction.

OCTOBER 16th Program: ANNUAL AUCTION

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COMING SOON!

November Meeting
ELECTIONS

December No Meeting
HOLIDAY BANQUET
Sunday, Dec. 20

Children at Meeting

ALL children attending meetings must be supervised by an adult at all times and may not be allowed to play in the streets and parking areas.

PK232 Raffle

Tickets are still available for the PK232 and PacketGold software.

Member Roster

A new roster will (hopefully) accompany your November RF. You must be a member to vote in the November Elections.

Board B'fast Site

Starting in November, we will be back at the Denny's in Santa Ana. See back page.

Board Elections

If you wish to run for a spot on the Board, contact Cindy, KC6OPI by October 17th.

Field Day Articles

Submit your Field Day recap articles to Nancy, N6XQR no later than November 21st.

Dues in January

Dues for 1993 are due in January. You will get your RF thru March, then you will be dropped, unless renewed.

Minutes General Meeting September 18, 1992

Meeting was called to order at 7:37 pm by Bob Eckweiler, AF6C.

Board member absent- Frank, WA6VKZ

Minutes were amended to read that Carmine, AB6KE was at the August meeting. Minutes were then approved by the general membership.

Speaker

Program was given by Art Goddard, W6XD on S.E.T.I. (Search for Extra Terrestrial Intelligence). He gave a very informative program on the history of this area and presented various views on what is currently being done in this area.

Old Business

Trailer Committee- W6HHC brought the club up to date on the committee's findings. They recommended that the club continue to investigate issues, locate a used trailer, locate a storage facility, determine cost of any modifications to

the trailer, find out fees involved to license trailer and any changes that need to be made in the club insurance policy. N6XQR brought up a question as to size of trailer. Bob, AF6C stated that a storage facility needs to be located prior to any decision on trailer. It was moved by Bill, N6EDY to have the committee continue to move ahead on this concept. Motion was seconded by Jane, KC6TAM. Motion was amended to add that letter be drafted by the 10/3/92 Board Meeting regarding request for storage facility. Motion was then passed by the general membership.

Secretary, Jane-KC6TAM advised there was no correspondence.

Treasurer's Report

Bill was received from World Radio for \$64.00 for a 1 year subscription and 5 gift subscriptions. Motion was made by N6XQR and seconded by Bill, N6EDY, to pay the \$64.00. Motion was passed by the general membership.

Carmine, AB6KE reported that there is \$569.01 in Checking and \$1,173.54 in the Savings account.

New Business

N6XQR reported that the equipment from James Moe's estate is in her possession and will be sold at the auction in October.

Auction on 10/16/92 - doors will be open early.

Ham Awareness Day has been cancelled.

The club breakfast will be moving back to Denny's Restaurant in November.

The 40 meter CW net may be switched to another frequency due to QRM.

Good of the Club

Bill, N6EDY has 35 gallons of gas to give away to anyone who wants it. The gas is regular gas but does have lead in it. Contact Bill if you are interested.

Cindy, KC6OPI announced that World Radio has now published the correct address for O.C.A.R.C.

Meeting was adjourned at 9:40 pm.

Respectfully submitted,
Jane Breller, KC6TAM, Secretary

1992 CLUB BOARD of DIRECTORS

President.....	Frank Smith.....	WA6VKZ	838-3180
Vice President	Bob Eckweiler	AF6C	639-5074
Secretary	Jane Breller	KC6TAM	310/866-2077
Treasurer	Carmine Fiorello	AB6KE	837-5133
Activities	Bob Schnabel	KM6TL	776-8486
Membership	Bob Buss	KD6BWH	534-2995
Public Relations	Cindy Hughes	KC6OPI	971-3448
T.V.I. Chairman ...	Clark Turner	WA3JPG	856-2131
Member at Large ..	Ken Konechy	W6HHC	744-0217
Member at Large ..	Mike Abreu	K6KAA	832-8503

CLUB APPOINTMENTS

Club Historian	Bob Evans	WB6IXN	543-9111
W6ZE Trustee	Bob Eckweiler	AF6C	639-5074
RF Editor	Nancy Bucher	N6XQR	537-8728
Refreshments	Cindy Hughes	KC6OPI	971-3448

DUES

Regular Member	\$12.00	Additional Family Members ..	\$6.00 each
Teenage Members (under 20)	\$6.00	Optional Club Badge	\$5.00

Dues for new members are prorated quarterly from January of each year. Family members must reside at the address of a Regular Member. One RF is sent per household.

It's a BOY!
Congratulations
KD6BCH & KD6AYO
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September 5, 1992

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On the Nets -- Sept., 1992

by Bob Evans, WB6IXN

9/2 15m phone net - W6ZE/AF6C checks in IXN, YZG, RND, & XTJ. IXN is not surprised at the 5+ earthquake in Utah along the Basin & Range Province. YZG comments that all land east of the San Andreas shud fall into the Atlantic Ocean anyway! And Lu, to err is human! To really foul things up, requires a computer! And RND, amidst the baseball games & a little football, has trouble wid the QRN on his 40m sched. XTJ, forgetting the AMTOR connection, bombards OPs wid AF distortion. "Sorry abt that", exclaims Jim.

9/2 2m phone net - W6ZE/IXN checks in NG7D, TAM & ZH, OPI, RND, RE, AF6C, XTJ, QW, HHC, KSP, ESD, KE & UF. NG7D scraps old CB radios for parts. And AF6C asks John to look for a 10.245 crystal in his old parts. XTJ gets HHC's message OK. ZH plays wid the new 850 as TAM contemplates gall bladder surgery. OPI gets the kids ready for school, & Cindy just returned from a Red Cross committee meeting. All OPs give congrats to ZH on the upgrade. And IXN tnx XTJ for the installation of PROCOMM for his waiting modem! Jim gets AMTOR up & working, but now it's the broken auto! RE handles net traffic, goes easy on the G-man this week, airs an interesting Newline, & tells OPs abt a blind Handi-ham that works 6 da/wk on a computer! RND says, "the XYL is replacing everything in the QTH but me!" Has she gotten to the ham gear yet, John? QW lets the aftershocks continue at Big Bear as he & VDP travel to Las Vegas, where Rolf goes big league, purchasing an FT-1000! HHC studies the judicial system judiciously as he finishes a 5-day jaunt on a jury! KSP flew in & flew out. ESD, besides dancing, has added golf to his retinue of activities, & Carmine joins KSP in a fly in-fly out routine! Larry, UF, begins classes on Thurs. eves., but W5QYI may check may take his place on CW net for awhile.

9/3 40m CW net - W6ZE/RND checks in IXN, KE, XQR, NT, & AA6JG. IXN is happy to report no disasters for today! KE's 500 Hz filter on the 850 is doing a FB job, and Carmine got the Century 21 bk from repairs. Bob, JG, in Santa Barbara, fades in & out, making him difficult to copy. QRN hampers XQR copy tonite. And Nancy is clobbered by JG after NC recognizes her! NT copies all OPs & IXN asks for a rpt of JG's QTH. XQR says RND has a nice fist. John asks Ray if he has any kind words. Ray says he's glad Nancy got his letter, & he has no kind words for John tonite! RND reminds all of the Club Bfast on Sat. morn. 73s & 88s!

9/9 15m phone net - W6ZE/AF6C checks in NGO, DXN, & YZG. Kei reroofs a shed before winter rains set in. And OPs talk abt the Big Bear Solar Observatory camcorder shots of the 6.5 earthquake & damage. IXN informs group of continuing seismic activity near Barstow & northward. YZG has a mouse loose in the house...It's driving the dogs nuts! AF6C suggests a Victor mouse trap as a solution!

9/9 2m phone net - W6ZE/IXN checks in AF6C, UK, OPI, NG7D, TAM & ZH, ESD, VDP, HHC, QW, & DLA. AF6C

gives OPs a 'snowplow' problem to contemplate for next net! UK is back in town after a summer of motorcycling! And DeWitt talks abt the taping of a TV program titled, "Seniors - The Changing Scene", abt motorcycling, ofcourse! OPI has the kids bk in school, & Cindy says the Fire Chief's Convention can still use more OP help! OPI will hve the OCARC slate of officers for 1993 in next 'RF'! NG7D gets out the dusty old wheelchair..Yup!..You guessed it!..One mile into the walk, Mom ends up pushing NG7D home!..Dead batteries! And John tries out the new Hi impedance mike on the Argonaut wid gud audio sig rpts! ZH still has a job wid Hughes...yet! And TAM just got sick!..IXN mentioned her upcoming gallbladder removal! However, Jane recovers quickly when she talks abt new chairs she purchased for the shack and the QTH. And TAM just loves all the stamps she's collected from ZH's 196 confirmed countries! ESD just attended the QCWA quarterly meeting at St. George's Restaurant. Not much radio for VDP..Larry talked to KE, & now, VDP is contemplating selling, swapping, etc. some items at the Ontario and the Rio Hondo Swap Meets. And HHC gets bk from jury duty to find all his work piled up waiting for him! Ken had to work last weekend! Ah! The price one pays for civic duty! QW has both Big Bear houses on the market, wid a bite already on one house! The big question now, Rolf, will it be Oregon or Florida! And Rolf has fallen in love wid his new toy, the FT-1000! And DLA is out 'walking the dogs' after a scare last week. However, treadmill tests, etc., showed no major problem! What was that abt cholesterol, Bruce?

9/10 40m CW net - W6ZE/RND checks in IXN, NG7D/ QRP, KE, NT, KI, AZ, JPG, & KB7LOS. RND will send IXN a quake article abt David Jackson. RND tries to eliminate QRM on NG7D's sigs. We all move down frequency. NG7D is hving a series of tests & all OPs wish him gud luck, & John's straight key sounded FB on the net tonite. The band begins to fluctuate, & sigs fade in & out. It appears that KE misses the band change, & Carmine doesn't return at W6ZE's call! JPG is running the Ten Tec 544, so there goes Clark's QRP for tonite. Hi! AZ finally remembers our net & we welcome you on board, Bob! Bob, like other OPs, went down for a site seeing trip on the Queen Mary before she gets berthed elsewhere! KI checks in from Sausalito, but DXN can't copy his sigs in the QRM & QRN! XQR, busy earning bread & butter wid her computer, wishes the net well tonite by landline to IXN. NT, silently listening, tells OPs he bears them all up on Goat Hill. LOS flies in & flies out. We may hve lost him in the QSY also!

9/16 15m phone net - W6ZE/AF6C checks in NGO, RND, DXN, IX, & XQR. NGO takes the corrugated covering off the garage roof, lays down some plywood sheets, & will finish the garage roofing Sunday. RND recognizes Paul, IX, as a Club member, & OPs welcome Paul to the net! John's son & family from Salt Lake City will be in over the weekend, so RND won't make Fri. meeting. We congrat Paul on the upgrade! IXN welcomes AF6C to the PSN (Public Seismic Network). The PSN is linked by packet between northern & southern CA., &

Continued on Page 4

Net Notes - Continued from Page 3

the network is endorsed by USGS! XQR has a sick 2m rig! Dr. David, TWF, will soon give it a strong dose of medicine! RFs are out, & Nancy will now eat dinner!

9/16 2m phone net - W6ZE/IXN checks in ZH & TAM, OPI, XQR, RND, RE, KE, VDP, BWH, & KM6WF. TAM still wrestles w/ the new job. Anyone need a credit manager?! And Chris & Jane contact earthquake country, the Kermadec Islands! OPI & RE tell OPs abt the Fire Chiefs' Convention, highlighting a slide presentation on hurricane damage in Fla. Former Club member, Terry Mathers, WB6IHZ, was there, too! XQR listens on the ailing 741, xmits on the 731, after a few hardware changes! Attagirl, Nancy! You're a hardware girl after all! NGO tells RND (on 15m tonite) that he doesn't hve any relatives in Hawaii, & RND has no luck w/ the Connecticut sched tonite. XYL chores in prep. for weekend company, is keeping John busy! XQR tells OPs they can hear Space Shuttle audio on 145.320, 224.040, & 448.500. Tnx, Nancy! RE, taking it easy on the G-man this week, tells OPs to check their DX bulletins, as Alex names some previously dis-approved DXCCs that are now approved!! Tnx, Alex! And RE airs interesting Newsline tapes. KE flies in & flies away to a sched on the Remote Base System w/ Bill, KD6FUU, in the S. Cook Is., & his mom. VDP is deeply engrossed w/ new FD antennas. IXN has trouble hearing WF in Whittier at first, but VDP hears her crisp & clear the whole way! KM6WF, Gail, 962-1356, invites OPs to Eddington H. S. in Huntington Beach, to participate in the operation of a Special Events station for grade school & teenage interested students. For time & date, call Gail at number above. BWH checks in, says he's switching to another antenna, & isn't heard from again!

9/17 40m CW net - W6ZE/RND checks in IXN, NG7D/ QRP, XQR, LYT, & NT. Queen Nancy, taking her place on the 'frequency throne' 1 KHz high, has her position duly acknowledged by NT! It must be the way these YLs daintily manipulate their keyers, for OM's just can't resist sending CQs on top of them. Right, XQR?! RND prepares for company over the weekend. And IXN congrats XQR on she & TWF's recognition in an article in '73' magazine concerning their outreach programs in public schools! IXN will include a copy of the article in the Club History. RND is chagrined at NT's sig rpt to QRP John, of 599, is better than his rpt of 579! It's just the way NG7D dresses, John! LYT has nice sigs, but he can't hear XQR's sigs! Ralph 73s & eavesdrops on the rest of the net. XQR leaves her throne to come down on freq. after RND quips, "All you girls give me a mean time, Hi!" NG7D sells his Century 21 to KE, & RND tells John to indulge himself w/ a TS-750 for Christmas!

9/23 15m phone net - W6ZE/AF6C checks in NGO, XTJ, COJ, RND, & IXN. NGO finishes the roof job, and Kei! What's this!?, deal for Friday, usual 5 pm meeting!?, Hm! W/ the heat & trying to keep cool, RND 'runs out of steam' abt 2 pm. So John 'curls up' w/ his new CQ mag. to rest for awhile! Even John's xmitr was too pooped to reach the E. Coast on his 20m

sched! IXN tnx XTJ for help w/ the modem program & XTJ tells the crew abt a new packet hardware/software program w/out all the bells & whistles! COJ tells all that the Christmas dinner is definitely confirmed for Sun., Dec. 20!

9/23 2m phone net - W6ZE/IXN checks in ZH & TAM, XTJ, OPI, NG7D, AF6C, RE, RND, PFA, & VDP. XQR was entertaining Frank, VKZ, on his BD! TAM says the gallstones are resting tonite! Jane probably jarred them loose when she 'knocked on wood'! ZH & TAM will try their hand at fishing over the weekend at Lake Skinner, not to mention a 'taste of the light fantastic' at a winery or two during their travels! And Chris says 20m DX is FB w/ Japan, Mozambique, a C9, Albania, Reunion Is., Antarctica, & Xmas Is. to name a few! XTJ tells OPs abt a hardware/software packet program that uses a modem & accompanying software to turn your computer & rig into a packet station! W/ BAYPAC modem & BAYCOM software, you're all set to go! W/ Red Cross, VEing, choir practice, and now, girlscoots, what will OPI take on next to make life more interesting!? NG7D, w/ too much gear, etc., in the shack, can't find room for the future new rig. Now to find room for a new printer stand! John also got a gud rpt from the doctor, & John asks VDP to send him info on an audio filter he purchased at a swap meet. AF6C, finding work strenuous these days, takes Mon. off to rest. Digging out the old text books, Bob writes a program for the noise bridge that will spit out the physical length, electrical length, & coax loss (in Db), for a length of coax! RE puts the fine touches on his 'two half waves in space' ant. for 2m. But alas, it won't load for the 145.22 RC net, but does a FB job at 146 MHz & above. Alex airs an interesting Newsline, & gives adr. to send QSLs for contact w/ Shuttle. RND & XYL finish the weekend w/ their son & grandkids & the sights of Orange County, etc. And John tells OPs abt a gud article on sunspot activity in the current CQ magazine. PFA does his weekly chore repairing tape recorders for the Braille Institute, then it's to work ripping apart the alternator in the auto. After Tom discovers the trouble, he finds buying the parts is more expensive than a rebuilt unit. It hardly pays to fix things anymore, Tom! And PFA enjoys the new Callbook program on his computer. 468 amateurs in Orange as of 6/10, and 105 amateurs in PFA's zipcode! VDP, VFC, & JPG, w/ top-loaded verticals against ground, enjoy 1.9 MHz Sat. eve. net on 160m. Hm! Sounds interesting, Larry!

9/24 40m CW net - W6ZE/RND checks in IXN, NT, & XQR. IXN & NT hear Nancy's sigs fade in & out. W/ an ant. mounted close to the roof, XQR suffers from high SWR loss, which makes her sigs v. weak. Also, Nancy was off net freq. by abt 1 KHz! NT works a couple of Europeans and IXN tells OPs abt a seismically active area from the White Wolf Fault across the Sierra Nevada to Coso Junction. RND reads XQR OK. W/ the high heat, John closes net & we all leave our hot shacks!

9/30 15m phone net - W6ZE/AF6C checks in NGO, XTJ, RND, IXN, & ZH. NGO makes a contact 'across the pond' on 15m. Kei hears the OP FB, but, Kei's sigs are almost lost in the

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Net Notes - Continued from Page 4

QRN on the other side. AF6C still works bugs out of the range extender for the Noise Bridge, & DXN tells RND that a small retinue of earthquakes follow John & XYL almost to Bishop! RND has a little QRN on XTJ's sigs, & Jim hears all OPs FB, but retires to the couch w/ a bad cold! ZH & Jane are still chasing the DX, & Chris hits the OPs w/ 500 W. tonite!

9/30 2m phone net - W6ZE/LXN checks in ZH & TAM, NG7D, RE, RND, ZH, VDP, AT, BWH, XQR, & OPI. ZH eagerly awaits the arrival of the Xtra ticket, while TAM investigates 3 new employment sources! And Chris works Mozambique on 40m CW! Also, a 4N5JA in Macedonia. A new lense repairs NG7D's damaged video tape recorder as John looks for a new 850 & wonders where he is going to put it in the shack! RE & XYL run the air condx full blast during the heat wave as Alex contemplates the soaring electric bill! But RE did note that it was 94 above 0 deg. at his QTH, & 94 deg. below zero in Antarctica! RND visits an airport at Bishop where he attends an 'experimental & old time fly-in' program. And John & XYL enjoyed Fall splendor watching the Aspens arrayed w/ red & yellow leaves! VDP can't paint when it's hot. And Larry's electric bill has skyrocketed w/ air condx. use during the heat wave! But VDP still enjoys 160m, especially w/ not much doing on 6m! BWH enjoys the vacation in N. Dakota, & now Bob misses the air condx at work as he sits dwn at the computer! XQR misses the event that LXN reported at 7:15 pm. However, Nancy & BCH VE over last weekend w/ VKZ VEing at the same time in Fountain Valley. Now XQR is bogged dwn w/ the paper work! And Nancy won't make the CW net tomorrow eve. She & KE will be having a VE date! OPI, bk frm a 'back to school nite' session, is looking fer her errant cats! ONZ busies himself w/ month's end inventory. & Cindy announces a RC 'Pasta Feast' at Wild Rivers on Oct. 18. More abt this at the Club breakfast!

Minutes Board Meeting October 3, 1992

Meeting was called to order at 9:12 am by Frank Smith, WA6VKZ.

Board members absent were Bob, AF6C, Clark, WA3JPG and Mike, K6KAA.

Old Business

Nominating Committee- Cindy, KC6OPI reported that she has candidates for all board positions.

Auction- Jim, N6XTJ, Chris, KJ6ZH and Mike, K6KAA will be the auctioneers. Carnine, AB6KE, Jane, KC6TAM and Bud, WA6VPP will collect the money. The room will be open at 6:15 pm. Tom, WA6PFA will bring the PA system and will turn it over to Bob, AF6C at the end of the auction. Nancy, N6XQR has flyers and will distribute them to H.R.O. and Electronic Times. Dave, W6COJ will announce the auction on the Swap Nets.

Christmas Dinner will be held on 12/20/92. Dave, W6COJ will get info on cost, any deposit needed and fees. Dave advised the Board that there are some options, buffet and table service. He will get cost on each and give to the Board. He also suggested that the club sell tickets to cover cost. N6XQR suggested that this be non-profit for club.

Trailer Committee had nothing further to report.

Breakfast location change- Cindy brought up that Ricky's was willing to work with the club, but Frank, WA6VKZ and Nancy, N6XQR announced that the breakfast would be moved back to Denny's Restaurant starting in November.

New Business

No new business

Treasurer's Report

Checking- \$ 676.83

Savings - \$ 1,173.54

Membership

There are 122 paid members

Meeting was adjourned at 9:32 am.

Respectfully submitted,

Jane Breller, KC6TAM

Secretary

FOR SALE

RANGER AR3500
10 METER RIG

plus fast scan microphone
and speech processor
\$200

Call Dave, KC6ZFR
(310) 377-2323

DON'T FORGET!
Come to the
Auction
and trade in those
OLD treasures for
some new ones!

American Red Cross
Orange County Chapter
is offering Amateur Radio
License test sessions.
When: 2nd Wednesday of each
month, at 6:30 pm.
Where: 601 N. Golden Circle,
Santa Ana
Register: (714) 835-5381 ext. 140
or
(714) 971-3448
VEC: ARRL

No-Code Technician

Weekend Classes
Fountain Valley

Bob Gregg, AB6CH
Instructor

October 23, 24, 25
December 11, 12, 13

CALL
(714) 375-0387

CROSS-BANDING WITH DUAL-BAND RIGS

by Gordon West, WB6NOA

Dual-band transceivers for the 2-meter/440 MHz bands are enjoying increased popularity because of their small size, twin-band capabilities, and attractive pricing. You can buy a 45-watt, dual-band, mobile transceiver, brand new, for around \$600. You don't find many used dual-banders out on the swap tables because once you own one, you might not want to give it up.

The obvious benefits of a dual-band mobile transceiver are two radios wrapped up into one. You get all of 2 meters, plus aeronautical receive, marine radio receive, and all of those other VHF out-of-band frequencies, too. Same thing with the UHF side—most dual-banders cover 440-450 MHz, and after modification can receive down to the FBI frequencies near 400 MHz, and all the way up to some metropolitan police departments at 507 MHz.

The modern dual-band mobile transceiver may also feature a detachable head. This allows you to bury the transceiver innards under your front seat, and have the tiny little head sitting on top of the dashboard. The remote-control cable is generally a tiny, ultra-flexible, multi-conductor that can be tucked away under any little crevice on the dashboard.

Dual-band mobiles, along with dual-band handheld transceivers, might also be modified for cross-band relay operation. Two of the most popular dual-band mobiles for this specialized application are the Alinco DR-599 and the ICOM IC-2410. Both units easily go into cross-band relay operation. I have worked both of these rigs in the cross-band mode, and it is some simple keyboard button pushing that lets you turn your mobile unit into a mobile repeater/relay station.

Let's say you go camping with your wife and kids. Everyone is licensed. Everyone owns small dual-band handhelds. You will park your mobile unit on the top of a hill, and set your 2-meter VHF frequency on 146.520 MHz, simplex, 88.5 Hz encode and decode. You would set your UHF band at 446 MHz,

simplex, with a tone of 88.5 Hz. Start off with low power on both bands, and go into the cross-band repeat mode.

With your handhelds, plug in the same frequencies, but leave off the decode function. This allows you to listen on both frequencies before transmitting to insure your mobile relay station does not cover up any ongoing transmission. Remember, your mobile unit is on decode squelch, so it will only relay when it picks up your individual 88.5 encode tones.

Once your family gets out of simplex range, switch over to your 146.52 and 446 MHz cross-band frequencies, and use your mobile rig as a cross-band repeater. If you transmit in on 2 meters, you will come out simultaneously on 446. And as long as everyone has a line-of-sight view of your vehicle parked on top of a hill, you'll be able to stay in touch, on low power, loud and clear! Always be sure to identify often, and make absolutely sure you are not covering up any ongoing communications that may be on frequency that your high-level mobile unit could interfere with.

PROBLEM: Many dual-band mobile units are coming up on cross-band repeat at high-level base stations, with high powered amplifiers, and high gain antennas. This leads to a high amount of interference on both 2 meters as well as 440 MHz, and major frequency coordination questions. Should these cross-band repeat stations fall under frequency coordination standards? Can you put them up on almost any frequency? Are they 100 percent legal without additional control and ID circuitry? These are the gray areas that are presently being addressed by spectrum managers throughout the country. With the proliferation of cross-band radios set up as personal mini-repeaters, the problem is growing by leaps and bounds. Worse yet, these systems are ending up on repeater inputs, satellite sub-bands, and even down at the bottom portion of the dual-bands reserved exclusively for weak signal SSB and CW.

So I recommend you cautiously use the feature of cross-band mobile relay only when you are well away from the city, and only when you need temporary mobile-relay communications to stay in touch with handhelds. Don't leave these stations on big base station antennas, and stay away from amplifiers. It will just lead to spectrum problems.

If you use your cross-band mobile relay capabilities sparingly and properly, you can add a new dimension to cross-band operation that may not cause interference. But keep these stations out of your big base set-up, and use the established frequency coordinated repeaters as the normal range extender. Cross-band mobile relay stations should only be used for temporary set-ups, and always on low power, with a careful check of the frequency chosen to insure you are not causing interference.

WALK-IN TESTING

October 11

Irvine

October 25

Fountain Valley

Call Nancy, N6XQR

(714) 537-8728

Gordon West Radio School, Inc.

presents

No Code Technician
Gordon West, WB6NOA
Instructor

Nov. 13, 14, 15 — Los Angeles
Dec. 4, 5, 6 — Irvine

General Code Class
Dan Fort, AA6LM, Instructor
Nov. 14, 15 — Los Angeles
Dec. 5, 6 — Irvine

Gordon West Radio School, Inc.
2414 College Dr.
Costa Mesa, CA 92626
(714) 549-5000 HOT LINE 10-4

Starting Packet or: now that it's all wired up, what do I do with this @!\$%^&* TNC!

by Jim Roberts, N6XTJ

When I started with packet I wondered how to make contacts. The books and articles all assumed that I had a friend close by to help. Though I had used phone modems for years, I made one connect to a NODE then was lost. It didn't have a BYE command and I didn't remember how to disconnect (I pulled the plug). The next day I called a cousin of mine who has operated packet for years. I asked him "now what the *&^%\$#@! do I do with this *&^%\$#@! TNC."

I'll try to help you to get going, step by step, with NODES AND PBBS. I'll assume you have a working knowledge of your terminal program. These instructions assume that you are using a dumb terminal or program that talks directly to the TNC in cmd. mode. I will put in some Packet-gold instructions in {} brackets if they are different. These commands do not apply to some packet only programs, see your programs manual for connect and download procedures. Once you are connected to a Node you will use the commands I am giving you. You do not have to have a packet only program. Most phone modem software works fine it's just a little less convenient. I used Procomm for a year. I tried several packet only programs to find one that I liked. Look around, you may like a different one. I liked and bought Packet-Gold (now PK-Gold).

You should make the tests on your system that your manual gives you and be ready to go on the air. Check to see that the radio squelch and volume controls are set. Also check the DCD or threshold control on the TNC (the DCD light should go on and off). This article is already far too long to go into more. It is split into several parts due to the length.

One quick test to see if you, the terminal and TNC are connected. The TNC should by now have your call in it, try MYCALL ^M (the ^M means to press the return key) to check. If it comes back with something other than your call sign, then type: MYCALL [YOUR CALL SIGN] ^M.

A TNC CALL sign can be your regular call sign: like N6XTJ. N6XTJ is the same as N6XTJ-0. You can use another number but stick with a number below -7 or you will have a problem. Some TNCs allow a number for normal use and a different one for your mailbox. An example is that I have two TNCs, The call on the one that operates on 441.5 is N6XTJ. It has a mailbox that is N6XTJ-2. That one is on unless I am operating AMTOR. My portable station TNC is N6XTJ-1 and it also has a mailbox that is N6XTJ-3.

So the node can keep straight what is happening it does some house keeping. When you connect as CALL-0 it will pass your traffic as CALL-15. If you are CALL-1, then it uses CALL-14. If you call your TNC CALL-1 and your mailbox CALL-14 there will be problems.

Now that the call sign is in the TNC and you are wired up (and so is your rig) we are ready for next month. If you have a friend in range all ready on packet, start with connects to him. For many packet users "Keyboard to Keyboard" is still the most fun. I didn't have one, but the books all assumed that was the way everyone would start. We make the opposite assumption, though several club members will be glad to help you.

These frequencies and Systems will be used as examples. The frequencies are simplex. Not all packet is. You can choose one or try them all. Use the alias to make the connection and you'll be at least a month ahead of us. Check the frequency if one isn't working or you try another. Other frequencies can be found in the repeater directory or from SCDCC pamphlets.

ALIAS	CALL	FREQ(S)	LOCATION
* ANAHIM & OBBS	WF6O-3 WF6O	145.030 223.540 145.050	Anaheim
* JESNDE & JESBBS	KB6JES-1 KB6JES	145.030 223.580 441.500	Paramont
* LANODE & LABBS	K6VE-10 K6VE-5	145.010 145.030 223.540 441.500	Mt. Washington (Eagle Rock)
LGB05	WA6RIK-2	145.050	Long Beach
BGBEAR	AA6TN-1	145.010	Big Bear
PV	W6IWY-4	145.010	Palos Verde

The * shows a switch rather than a node. You see multiple frequencies for these, use any. I only listed the 1200 baud ports. These three switches also have a BBS and I listed that as well. These are just a few to try; most of you can probably hit them all. As I said if you want to get started please do, you can learn everything in these articles by just working Packet. Note that the BBS call and Alias is different from the Switch.

We will, over several issues, cover Node and Switch use, BBS mail, BBS file use and finally a cheat sheet of commands. Next month we will actually start at the keyboard. I'll repeat the above frequencies list then. There will be some redundancy but by splitting the article, I felt we would lose some people who hadn't seen the earlier articles. Each will, however, rely on the information in the earlier ones. This month we told what we'll be doing. That way you can prepare the TNC cables, and read the terminal program's documents as needed before we start.

Ed. Note: Parts 2, 3, and 4 will appear in the November, December and January issues of the RF.

**GENERAL
MEETING**

**October 16th
AUCTION**

**November 20th
ELECTIONS**

**December 20th
BANQUET**

**BOARD
BREAKFAST
November 7th**

December 5th

CLUB MEETINGS

General Meeting is the 3rd Friday of each month at 7:30 PM

Anaheim Emergency Operations Center

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A big antenna is in front with a red light on top.

Vermont runs east and west between Harbor and State College

Vermont is north of Ball and South of Lincoln

Board Meeting is the 1st Saturday of each month at 8:00 AM

Denny's Restaurant -- Members & Visitors are welcome

2314 E. Seventeenth Street, Santa Ana, CA (714) 543-0872

2nd building west of the 55 freeway, south side of 17th

CLUB NETS

<u>BAND</u>	<u>MODE</u>	<u>DAY</u>	<u>LOCAL TIME</u>	<u>FREQ. MHz</u>	<u>NET CONTROL</u>
15 Meters	SSB	Wed	8:00 PM	21.375*	AF6C
2 Meters	FM	Wed	8:30 PM	146.550 simplex	WB6IXN
40 Meters	CW	Thur	8:00 PM	7.140*	WA6RND

(Listen for W6ZE, Net Control) *Plus or minus QRM

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